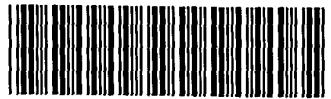


CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/974,026CRF Processing Date: 3/19/2002
Edited by: AJ
Verified by: AJ (STIC staff) Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:

* Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/19/95



OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/974,026

DATE: 03/19/2002
 TIME: 12:42:21

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF3\03192002\I974026.raw

3 <110> APPLICANT: Tamburini, Paul P
 4 Davis, Gary
 5 Delaria, Katherine A
 6 Christopher, Marlor W
 7 Daniel, Muller K
 9 <120> TITLE OF INVENTION: Human Bikunin
 11 <130> FILE REFERENCE: 96-223-ZZ
 13 <140> CURRENT APPLICATION NUMBER: US 09/974,026
 14 <141> CURRENT FILING DATE: 2001-10-10
 16 <150> PRIOR APPLICATION NUMBER: US 09/144,428
 17 <151> PRIOR FILING DATE: 1998-08-31
 19 <150> PRIOR APPLICATION NUMBER: PCT/US97/03894
 20 <151> PRIOR FILING DATE: 1997-03-10
 22 <150> PRIOR APPLICATION NUMBER: US 08/725,251
 23 <151> PRIOR FILING DATE: 1996-10-04
 25 <150> PRIOR APPLICATION NUMBER: US 60/019,793
 26 <151> PRIOR FILING DATE: 1996-06-14
 28 <150> PRIOR APPLICATION NUMBER: US 60/013,106
 29 <151> PRIOR FILING DATE: 1996-03-11
 31 <160> NUMBER OF SEQ ID NOS: 105
 33 <170> SOFTWARE: PatentIn version 3.1
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 179
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Homo sapiens
 40 <400> SEQUENCE: 1
 42 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 43 1 5 10 15
 46 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 47 20 25 30
 50 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 51 35 40 45
 54 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 55 50 55 60
 58 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 59 65 70 75 80
 62 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 63 85 90 95
 66 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 67 100 105 110
 70 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 71 115 120 125
 74 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn

P. 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/974,026

DATE: 03/19/2002
TIME: 12:42:21

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\03192002\I974026.raw

75 130 135 140
78 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
79 145 150 155 160
82 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
83 165 170 175
86 Ala Val Ser
90 <210> SEQ ID NO: 2
91 <211> LENGTH: 197
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: SIGNAL
97 <222> LOCATION: (1)..(18)
98 <223> OTHER INFORMATION:
101 <400> SEQUENCE: 2
103 Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val
104 1 5 10 15
107 Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
108 20 25 30
111 Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
112 35 40 45
115 Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly
116 50 55 60
119 Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala
120 65 70 75 80
123 Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
124 85 90 95
127 Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
128 100 105 110
131 His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala
132 115 120 125
135 Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val
136 130 135 140
139 Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn
140 145 150 155 160
143 Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg
144 165 170 175
147 Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu
148 180 185 190
151 Ala Gly Ala Val Ser
152 195
155 <210> SEQ ID NO: 3
156 <211> LENGTH: 153
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 3
162 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala
163 1 5 10 15
166 Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/974,026

DATE: 03/19/2002
TIME: 12:42:21

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\03192002\I974026.raw

167 20 25 30
170 Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys
171 35 40 45
174 Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly
175 50 55 60
178 Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala
179 65 70 75 80
182 Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr
183 85 90 95
186 Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser
187 100 105 110
190 Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe
191 115 120 125
194 Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu
195 130 135 140
198 Ala Cys Met Leu Arg Cys Phe Arg Gln
199 145 150
202 <210> SEQ ID NO: 4
203 <211> LENGTH: 58
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
207 <400> SEQUENCE: 4
209 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala
210 1 5 10 15
213 Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu
214 20 25 30
217 Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys
218 35 40 45
221 Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
222 50 55
225 <210> SEQ ID NO: 5
226 <211> LENGTH: 51
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 5
232 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg
233 1 5 10 15
236 Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly
237 20 25 30
240 Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu
241 35 40 45
244 Lys Lys Cys
245 50
248 <210> SEQ ID NO: 6
249 <211> LENGTH: 58
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 6
255 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/974,026

DATE: 03/19/2002
TIME: 12:42:21

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\03192002\I974026.raw

256 1 5 10 15
259 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn
260 20 25 30
263 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu
264 35 40 45
267 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln
268 50 55
271 <210> SEQ ID NO: 7
272 <211> LENGTH: 51
273 <212> TYPE: PRT
274 <213> ORGANISM: Homo sapiens
276 <400> SEQUENCE: 7
278 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg
279 1 5 10 15
282 Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly
283 20 25 30
286 Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met
287 35 40 45
290 Leu Arg Cys
291 50
294 <210> SEQ ID NO: 8
295 <211> LENGTH: 92
296 <212> TYPE: PRT
297 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 8
301 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
302 1 5 10 15
305 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
306 20 25 30
309 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
310 35 40 45
313 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
314 50 55 60
317 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
318 65 70 75 80
321 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser
322 85 90
325 <210> SEQ ID NO: 9
326 <211> LENGTH: 708
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Consensus DNA sequence of human Bikunin (Fig. 3).
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <222> LOCATION: (679)..(679)
336 <223> OTHER INFORMATION: "n" is any nucleotide.
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/974,026

DATE: 03/19/2002
TIME: 12:42:21

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\03192002\I974026.raw

341 <222> LOCATION: (707)..(707)
342 <223> OTHER INFORMATION: "n" is any nucleotide.

345 <400> SEQUENCE: 9

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| 346 | ggccgggtcg | tttctcgctt | ggctgggatc | gctgctcctc | tctggggtcc | tggccggcga | 60 |
| 348 | ccgagaacgc | agcatccacg | acttctgcct | ggtgtcgaag | gtgggtggca | gatgccggc | 120 |
| 350 | ctccatgcct | aggtgtgtt | acaatgtcac | tgacggatcc | tgccagctgt | tttgttatgg | 180 |
| 352 | gggctgtgac | gaaaacagca | ataattacct | gaccaaggag | gagtgccctca | agaaatgtgc | 240 |
| 354 | cactgtcaca | gagaatgcca | cgggtgaccc | ggccaccagc | aggaatgcag | cggattcctc | 300 |
| 356 | tgtcccaagt | gctcccagaa | ggcaggattc | tgaagaccac | tccagcgata | tgttcaacta | 360 |
| 358 | tgaagaatac | tgcacccgca | acgcagtac | tggccttgc | cgtgcacatcct | tcccacgctg | 420 |
| 360 | gtactttgac | gtggagagga | actcctgcaa | taacttcatac | tatggaggtct | gccggggcaa | 480 |
| 362 | taagaacagc | taccgctctg | aggaggcctg | catgctccgc | tgcttccgccc | agcaggagaa | 540 |
| 364 | tcctccctg | cccttggct | caaaggtgtt | ggtgtctggcc | ggggctgttt | cgtgatggtg | 600 |
| 366 | ttgatccctt | tcctgggag | catccatggt | tttactgatt | ccgggtggca | aggaggaacc | 660 |
| 368 | <u>aggagcgtgc</u> | <u>cctcgccanc</u> | <u>gtctggagct</u> | <u>tcggagatga</u> | <u>caagggn</u> | | 708 |

W-~~Q~~ 371 <210> SEQ ID NO: 10

372 <211> LENGTH: 197

373 <212> TYPE: PRT

374 <213> ORGANISM: Artificial Sequence

376 <220> FEATURE:

377 <223> OTHER INFORMATION: Amino acids -18 to 179 of translation of consensus sequence in Fig. 3.

379 <400> SEQUENCE: 10

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|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 381 | Ala | Gly | Ser | Phe | Leu | Ala | Trp | Leu | Gly | Ser | Leu | Leu | Ser | Gly | Val | |
| 382 | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
| 385 | Leu | Ala | Ala | Asp | Arg | Glu | Arg | Ser | Ile | His | Asp | Phe | Cys | Leu | Val | Ser |
| 386 | | | | | 20 | | | | 25 | | | | 30 | | | |
| 389 | Lys | Val | Val | Gly | Arg | Cys | Arg | Ala | Ser | Met | Pro | Arg | Trp | Trp | Tyr | Asn |
| 390 | | | | | 35 | | | | 40 | | | | 45 | | | |
| 393 | Val | Thr | Asp | Gly | Ser | Cys | Gln | Leu | Phe | Val | Tyr | Gly | Gly | Cys | Asp | Gly |
| 394 | | | | | 50 | | | | 55 | | | | 60 | | | |
| 397 | Asn | Ser | Asn | Asn | Tyr | Leu | Thr | Lys | Glu | Glu | Cys | Leu | Lys | Lys | Cys | Ala |
| 398 | 65 | | | | | 70 | | | | 75 | | | | 80 | | |
| 401 | Thr | Val | Thr | Glu | Asn | Ala | Thr | Gly | Asp | Leu | Ala | Thr | Ser | Arg | Asn | Ala |
| 402 | | | | | 85 | | | | 90 | | | | 95 | | | |
| 405 | Ala | Asp | Ser | Ser | Val | Pro | Ser | Ala | Pro | Arg | Arg | Gln | Asp | Ser | Glu | Asp |
| 406 | | | | | 100 | | | | 105 | | | | 110 | | | |
| 409 | His | Ser | Ser | Asp | Met | Phe | Asn | Tyr | Glu | Glu | Tyr | Cys | Thr | Ala | Asn | Ala |
| 410 | | | | | 115 | | | | 120 | | | | 125 | | | |
| 413 | Val | Thr | Gly | Pro | Cys | Arg | Ala | Ser | Phe | Pro | Arg | Trp | Tyr | Phe | Asp | Val |
| 414 | | | | | 130 | | | | 135 | | | | 140 | | | |
| 417 | Glu | Arg | Asn | Ser | Cys | Asn | Asn | Phe | Ile | Tyr | Gly | Gly | Cys | Arg | Gly | Asn |
| 418 | 145 | | | | | 150 | | | | 155 | | | | 160 | | |
| 421 | Lys | Asn | Ser | Tyr | Arg | Ser | Glu | Glu | Ala | Cys | Met | Leu | Arg | Cys | Phe | Arg |
| 422 | | | | | | 165 | | | | 170 | | | | 175 | | |
| 425 | Gln | Gln | Glu | Asn | Pro | Pro | Leu | Pro | Leu | Gly | Ser | Lys | Val | Val | Val | Leu |
| 426 | | | | | | 180 | | | | 185 | | | | 190 | | |
| 429 | Ala | Gly | Ala | Val | Ser | | | | | | | | | | | |
| 430 | | | | 195 | | | | | | | | | | | | |
| 433 | <210> | SEQ | ID | NO: | 11 | | | | | | | | | | | |

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/19/2002
PATENT APPLICATION: US/09/974,026 TIME: 12:42:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\03192002\I974026.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 679,707
Seq#:11; Xaa Pos. 8,17,19,21,22,23,24,25,26,40,42,45,46,47,52,64,103,112
Seq#:11; Xaa Pos. 114,116,117,118,119,120,121,135,137,140,141,142,147,159
Seq#:12; N Pos. 361,367,384,390
Seq#:14; N Pos. 424,481,509
Seq#:16; N Pos. 3,11,12,17,48,425
Seq#:17; N Pos. 7,403,409
Seq#:48; N Pos. 1358
Seq#:51; N Pos. 46,117,313
Seq#:72; Xaa Pos. 9,11,17,19
Seq#:74; Xaa Pos. 25
Seq#:75; N Pos. 425,482,510
Seq#:76; Xaa Pos. 25
Seq#:77; N Pos. 45,49,118,231,305
Seq#:78; N Pos. 117,123,321
Seq#:79; N Pos. 9,11,222,231,262,267,274
Seq#:80; N Pos. 44,46,76,114,187,268,309,317,332,370
Seq#:81; N Pos. 35,148,235,261,272,293,300,313,320
Seq#:82; N Pos. 56,137,145,159,233
Seq#:83; N Pos. 20,26,95,292,313,314,315
Seq#:84; N Pos. 27,139,223,232,302,310,322,328,357,375,392,398,405,427,437
Seq#:84; N Pos. 449,458,474
Seq#:85; N Pos. 361,367,384,390
Seq#:86; N Pos. 3,11,12,17,48,425
Seq#:87; N Pos. 7,403,409
Seq#:88; N Pos. 48,62,211,232,245,309,318
Seq#:89; N Pos. 424,481,509
Seq#:90; N Pos. 257
Seq#:91; N Pos. 19,147
Seq#:92; N Pos. 33,55,213,228,259,267,324,333,344,387
Seq#:93; N Pos. 306,328,342,365,370,377,382,402
Seq#:94; N Pos. 1,142,339,347
Seq#:95; N Pos. 334,368,376
Seq#:96; N Pos. 108,261
Seq#:97; N Pos. 20,30
Seq#:98; N Pos. 45,102,105,159,174,213,337
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Seq#:101; N Pos. 24
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Seq#:103; N Pos. 7
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Seq#:105; N Pos. 13,19,107



O I P E

RAW SEQUENCE LISTING DATE: 03/11/2002
 PATENT APPLICATION: US/09/974,026 TIME: 15:03:12

Input Set : A:\09-974,026 sequence listing.txt
 Output Set: N:\CRF3\03112002\I974026.raw

mai eof

Does Not Comply
 Corrected Diskette Needed

3 <110> APPLICANT: Tamburini, Paul P
 4 Davis, Gary
 5 Delaria, Katherine A
 6 Christopher, Marlor W
 7 Daniel, Muller K
 9 <120> TITLE OF INVENTION: Human Bikunin
 11 <130> FILE REFERENCE: 96-223-ZZ
 13 <140> CURRENT APPLICATION NUMBER: US 09/974,026
 14 <141> CURRENT FILING DATE: 2001-10-10
 16 <150> PRIOR APPLICATION NUMBER: US 09/144,428
 17 <151> PRIOR FILING DATE: 1998-08-31
 19 <150> PRIOR APPLICATION NUMBER: PCT/US97/03894
 20 <151> PRIOR FILING DATE: 1997-03-10
 22 <150> PRIOR APPLICATION NUMBER: US 08/725,251
 23 <151> PRIOR FILING DATE: 1996-10-04
 25 <150> PRIOR APPLICATION NUMBER: US 60/019,793
 26 <151> PRIOR FILING DATE: 1996-06-14
 28 <150> PRIOR APPLICATION NUMBER: US 60/013,106
 29 <151> PRIOR FILING DATE: 1996-03-11
 31 <160> NUMBER OF SEQ ID NOS: 105
 33 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

3913 <210> SEQ ID NO: 105
 3914 <211> LENGTH: 343
 3915 <212> TYPE: DNA
 3916 <213> ORGANISM: Homo sapiens
 3918 <220> FEATURE:
 3919 <221> NAME/KEY: misc_feature
 3920 <222> LOCATION: (13)..(13)
 3921 <223> OTHER INFORMATION: "n" is any nucleotide.
 3924 <220> FEATURE:
 3925 <221> NAME/KEY: misc_feature
 3926 <222> LOCATION: (19)..(19)
 3927 <223> OTHER INFORMATION: "n" is any nucleotide.
 3930 <220> FEATURE:
 3931 <221> NAME/KEY: misc_feature
 3932 <222> LOCATION: (107)..(107)
 3933 <223> OTHER INFORMATION: "n" is any nucleotide.
 3936 <400> SEQUENCE: 105
 W--> 3937 ccctgggtcc tgncaaggna tggggtttgc tttggaaatc ctcttaggag gtccttcctc 60

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,026

DATE: 03/11/2002

TIME: 15:03:12

Input Set : A:\09-974,026 sequence listing.txt
Output Set: N:\CRF3\03112002\I974026.raw

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| W--> 3939 | gcatggcctg | cagtctggca | gcagccccga | gttgtttccct | cgctganncga | tttctttcct | 120 |
| 3941 | ccaggttagag | ttttctttgc | ttatgtgaa | ttcattgcc | tcttttctca | tcacagaagt | 180 |
| 3943 | gatgttggaa | tcttttcttt | tgtttgtctg | atttatggtt | tttttaagta | taaacaaaaag | 240 |
| 3945 | tttttttatta | gcattctgaa | agaagggaaag | taaaatgtac | aagtttaata | aaaaggggcc | 300 |
| 3947 | ttcccccttta | gaataaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaa | | 343 |
| E--> 3950 | (1) | | | | | | |
| E--> 3952 | (1) | | | | | | |

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/974,026

DATE: 03/11/2002
TIME: 15:03:13

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Output Set: N:\CRF3\03112002\I974026.raw

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L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:2409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:2413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
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L:2579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:2620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:2626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:2671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:2677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:2679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:2748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/974,026

DATE: 03/11/2002
TIME: 15:03:13

Input Set : A:\09-974,026 sequence listing.txt
Output Set: N:\CRF3\03112002\I974026.raw

L:2878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:3950 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:343 SEQ:105
M:254 Repeated in SeqNo=105